

FILEID**STAIOSYS

J 6

The image shows a decorative border composed of a repeating pattern of symbols. The symbols include 'S' (represented by two vertical lines), 'T' (represented by three vertical lines), 'A' (represented by two vertical lines with a diagonal line between them), 'I' (represented by a single vertical line), 'O' (represented by two vertical lines with a horizontal line between them), 'Y' (represented by two diagonal lines meeting at a point), and 'L' (represented by a single vertical line with a horizontal line extending from its top). The border is formed by these symbols arranged in a grid-like structure.

```
1 0001 0 MODULE STAIOSYS (%TITLE 'Standalone I/O system'
2 0002 0 IDENT = 'V04-000'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1 ****
8 0008 1 *
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26 0026 1 *
27 0027 1 *
28 0028 1 ****
29 0029 1 .
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY:
33 0033 1 Backup/Restore
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1 This module contains the replacements for I/O routines in the
37 0037 1 stand-alone environment.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1 VAX/VMS user mode.
41 0041 1 --
42 0042 1
43 0043 1 AUTHOR: M. Jack, CREATION DATE: 27-Dec-1980
44 0044 1
45 0045 1 MODIFIED BY:
46 0046 1
47 0047 1 V03-001 ACG0313 Andrew C. Goldstein, 12-Feb-1983 17:22
48 0048 1 Add routine subtitles
49 0049 1
50 0050 1 **
```

```
52 0051 1 REQUIRE 'SRC$:COMMON';
53 1157 1 LIBRARY 'SYSSLIBRARY:LIB';
54 1158 1
55 1159 1
56 1160 1 FORWARD ROUTINE
57 1161 1     ASSIGN CHANNEL,
58 1162 1     LIB$GET_COMMAND,
59 1163 1     LIB$PUT_OUTPUT,
60 1164 1     SYSSQIO,
61 1165 1     SYSSQIOW,
62 1166 1     SYSSCLOSE,
63 1167 1     SYSSCREATE,
64 1168 1     SYSSOPEN,
65 1169 1     SYSSCONNECT,
66 1170 1     SYSSPUT,
67 1171 1     DUMMY;
68 1172 1
69 1173 1
70 1174 1 EXTERNAL ROUTINE
71 1175 1     STA_QIO;
72 1176 1
73 1177 1
74 1178 1 OWN
75 1179 1     STA_TT_CHAN;
```

! Execute \$ASSIGN service
! LIB\$GET_COMMAND
! LIB\$PUT_OUTPUT
! QIO service
! QIOW service
! CLOSE service
! CREATE service
! OPEN service
! CONNECT service
! PUT service
! Dummy service

! Standalone ACP QIO processor

! Channel assigned to SYSSINPUT/OUTPUT

```
77 1180 1 %SBTTL 'ASSIGN_CHANNEL - assign channel to device'
78 1181 1 ROUTINE ASSIGN_CHANNEL(DEVICE,CHANNEL)=
79 1182 1 !++
80 1183 1 !++
81 1184 1
82 1185 1 FUNCTIONAL DESCRIPTION:
83 1186 1 This routine executes the $ASSIGN service.
84 1187 1
85 1188 1 INPUT PARAMETERS:
86 1189 1 DEVICE - Descriptor for device name
87 1190 1 CHANNEL - Pointer to where channel number will be stored
88 1191 1
89 1192 1 IMPLICIT INPUTS:
90 1193 1 NONE
91 1194 1
92 1195 1 OUTPUT PARAMETERS:
93 1196 1 NONE
94 1197 1
95 1198 1 IMPLICIT OUTPUTS:
96 1199 1 NONE
97 1200 1
98 1201 1 ROUTINE VALUE:
99 1202 1 Completion status.
100 1203 1
101 1204 1 SIDE EFFECTS:
102 1205 1 NONE
103 1206 1
104 1207 1 !--
105 1208 1
106 1209 2 BEGIN
107 1210 2 MAP
108 1211 2 LOCAL DEVICE: REF BBLOCK; ! Pointer to descriptor for device
109 1212 2 IN_DESC: VECTOR[2]; ! Descriptor for input device name
110 1213 2 OUT_DESC: VECTOR[2]; ! Descriptor for BUFFER
111 1214 2 BUFFER: VECTOR[64,BYTE]; Buffer for result of STRNLOG
112 1215 2 P Temporary pointer
113 1216 2 STATUS: ! Status variable
114 1217 2
115 1218 2
116 1219 2
117 1220 2 ! Strip elements following colon from string if required.
118 1221 2
119 1222 2 IN_DESC[0] = .DEVICE[DSC$W_LENGTH];
120 1223 2 IF -(P = CH$FIND CH(.DEVICE[DSC$W_LENGTH], .DEVICE[DSC$A_POINTER], %C':')) NEQ 0
121 1224 2 THEN IN_DESC[0] = P - .DEVICE[DSC$A_POINTER];
122 1225 2 IN_DESC[1] = .DEVICE[DSC$A_POINTER];
123 1226 2
124 1227 2
125 1228 2 ! Execute STRNLOG service to handle process-permanent file.
126 1229 2
127 1230 2 OUT_DESC[0] = 64;
128 1231 2 OUT_DESC[1] = BUFFER;
129 1232 2 BUFFER[0] = 0;
130 1233 2 STRNLOG(LOGNAM=IN_DESC, RSLLEN=OUT_DESC, RSLBUF=OUT_DESC);
131 1234 2
132 1235 2 ! Handle process-permanent file.
133 1236 2
```

STAIOSYS
V04-000

Standalone I/O system
ASSIGN_CHANNEL - assign channel to device

N 6
16-Sep-1984 01:05:14 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 11:54:05 [BACKUP.SRC]STAIOSYS.B32;1

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```
134      1237 2  !
135      1238 2  IF .BUFFER[0] EQL %0'033'
136      1239 2  THEN
137      1240 3  BEGIN
138      1241 3  IN_DESC[0] = .OUT_DESC[0] - 4;
139      1242 3  IN_DESC[1] = .OUT_DESC[1] + 4;
140      1243 2  END;
141      1244 2
142      1245 2
143      1246 2  ! Execute $ASSIGN service, returning its result as value.
144      1247 2
145      1248 3  $ASSIGN(DEVNAM=IN_DESC, CHAN=.CHANNEL)
146      1249 1  END;
```

```
.TITLE STAIOSYS Standalone I/O system
.IDENT \V04-000\

.PSECT DATA,NOEXE,2

CHAN:
.BLKB 4

.EXTRN STA QIO, SYS$TRNLOG
.EXTRN SYSS$ASSIGN

.PSECT CODE,NOWRT,2
```

0004 00000 ASSIGN_CHANNEL:											
04	B2	48	5E	80	AE	9E	00002	.WORD	Save R2		1181
		52	04	AC	D0	00006	MOVAB	-80(SP), SP			
		AE	62	62	3C	0000A	MOVL	DEVICE, R2			1222
		48	62	3A	3A	0000E	MOVZWL	(R2), IN_DESC			1223
				02	12	00013	LOCC	#58, (R2), @4(R2)			
				51	D4	00015	BNEQ	1S			
				51	D5	00017	1S:	CLRL	R1		
				06	13	00019	TSTL	P			
				04	A2	C3	0001B	BEQL	2S		
48	AE	48	51	04	A2	D0	00021	SUBL3	4(R2), P, IN_DESC		1224
		4C	AE	04	A2	D0	00021	2S:	MOVL	4(R2), IN_DESC+4	
		40	AE	40	8F	9A	00026	MOVZBL	#64, uu, DESC		1225
		44	AE	6E	9E	0002B	MOVAB	BUFFER, OUT_DESC+4			1230
				6E	94	0002F	CLRB	BUFFER			1231
				7E	7C	00031	CLRQ	-(SP)			1232
				7E	D4	00033	CLRL	-(SP)			1233
				4C	AE	9F	00035	PUSHAB	OUT_DESC		
				50	AE	9F	00038	PUSHAB	OUT_DESC		
				5C	AE	9F	0003B	PUSHAB	IN_DESC		
		00000000G	00	06	FB	0003E	CALLS	#6, SYSSTRNLOG			
			1B	6E	91	00045	CMPB	BUFFER, #27			1238
				0C	12	00048	BNEQ	3S			
48	AE	48	40	AE	04	C3	0004A	SUBL3	#4, OUT_DESC, IN_DESC		1241
4C	AE	4C	44	AE	04	C1	00050	ADDL3	#4, OUT_DESC+4, IN_DESC+4		1242
				7E	7C	00056	3S:	CLRQ	-(SP)		1248
				08	AC	DD	00058	PUSHL	CHANNEL		
				54	AE	9F	0005B	PUSHAB	IN_DESC		
		00000000G	00	04	FB	0005E	CALLS	#4, SYSSASSIGN			

STAIOSYS
V04-000

Standalone I/O system
ASSIGN_CHANNEL - assign channel to device

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[BACKUP.SRC]STAIOSYS.B32;1

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: 1249

; Routine Size: 102 bytes, Routine Base: CODE + 0000

04 00065 RET

S
V

:

```
148 1250 1 %SBTTL 'LIB$GET_COMMAND - get input from terminal'
149 1251 1 GLOBAL ROUTINE [IB$GET_COMMAND(GET_STR,PROMPT_STR,OUT_LEN)=
150 1252 1
151 1253 1 !++
152 1254 1
153 1255 1 FUNCTIONAL DESCRIPTION:
154 1256 1 This routine is a replacement for LIB$GET_COMMAND in the
155 1257 1 stand-alone environment. Note that it need only handle static
156 1258 1 output strings.
157 1259 1
158 1260 1 INPUT PARAMETERS:
159 1261 1 GET_STR      - Pointer to static descriptor to receive the string.
160 1262 1 PROMPT_STR   - Pointer to descriptor for prompt string.
161 1263 1 OUT_LEN      - (Optional) Pointer to word to receive length.
162 1264 1
163 1265 1 IMPLICIT INPUTS:
164 1266 1     NONE
165 1267 1
166 1268 1 OUTPUT PARAMETERS:
167 1269 1     NONE
168 1270 1
169 1271 1 IMPLICIT OUTPUTS:
170 1272 1     NONE
171 1273 1
172 1274 1 ROUTINE VALUE:
173 1275 1     Completion status.
174 1276 1
175 1277 1 SIDE EFFECTS:
176 1278 1     NONE
177 1279 1
178 1280 1 !--
179 1281 1
180 1282 2 BEGIN
181 1283 2 MAP
182 1284 2     GET_STR:      REF BBLOCK:           ! Pointer to static descriptor
183 1285 2     PROMPT_STR:    REF BBLOCK:           ! Pointer to descriptor
184 1286 2 LOCAL      STATUS,                  ! Status variable
185 1287 2           IOSB:                   ! I/O status block
186 1288 2           BUFFER:                 ! Input buffer
187 1289 2
188 1290 2 BUILTIN    ACTUALCOUNT;
189 1291 2
190 1292 2
191 1293 2
192 1294 2 ! Assign the channel if required.
193 1295 2
194 1296 2 IF .STA_TT_CHAN EQL 0
195 1297 2 THEN
196 1298 3     BEGIN
197 1299 3     STATUS = ASSIGN CHANNEL($DESCRIPTOR('SYSSINPUT'), STA_TT_CHAN);
198 1300 3     IF NOT .STATUS THEN RETURN .STATUS;
199 1301 2     END;
200 1302 2
201 1303 2
202 1304 2 ! Execute the QIO.
203 1305 2
204 P 1306 2 STATUS = $QIOW(
```

```

205 P 1307 2 FUNC=IOS_READPROMPT,
206 P 1308 2 CHAN=.STA_TT_CHAN,
207 P 1309 2 IOSB=IOSB,
208 P 1310 2 P1=BUFFER,
209 P 1311 2 P2=132,
210 P 1312 2 P5=.PROMPT_STR[DSC$A_POINTER],
211 P 1313 2 P6=.PROMPT_STR[DSC$W_LENGTH]);
212 P 1314 2 IF .STATUS THEN STATUS = .IOSB[0];
213 P 1315 2 IF NOT .STATUS THEN RETURN .STATUS;
214 P 1316 2
215 P 1317 2
216 P 1318 2 ! Return the length if requested.
217 P 1319 2
218 P 1320 2 IF ACTUALCOUNT() GEQU 3
219 P 1321 2 THEN
220 P 1322 2 (.OUT_LEN)<0,16> = MINU(.IOSB[1], .GET_STR[DSC$W_LENGTH]);
221 P 1323 2
222 P 1324 2
223 P 1325 2 ! Copy the string to the output buffer and return.
224 P 1326 2
225 P 1327 2 CH$COPY(.IOSB[1], BUFFER, %C' ', .GET_STR[DSC$W_LENGTH], .GET_STR[DSC$A_POINTER]);
226 P 1328 2 SSS_NORMAL
227 P 1329 1 END;

```

54	55	50	4E	49	24	53	59	53	00066	P.AAB:	.ASCII \SYSSINPUT\
									0006F		.BLKB 1
									00000009	00070	P.AAA: .LONG 9
									00000000	00074	.ADDRESS P.AAB

.EXTRN SYSSQIOW

									007C	00000	.ENTRY LIB\$GET_COMMAND, Save R2,R3,R4,R5,R6	1251
									EF	9E 00002	MOVAB STA_TT_CHAN, R6	
									CE	9E 00009	MOVAB -(140(SP)), SP	
									66	D5 0000E	TSTL STA_TT_CHAN	
									0D	12 00010	BNEQ 1\$	
									56	DD 00012	PUSHL R6	
									E1	AF 9F 00014	PUSHAB P.AAA	
									02	FB 00017	CALLS #2, ASSIGN_CHANNEL	
									50	E9 0001C	BLBC STATUS, 4\$	
									55	08 AC DD 0001F	MOVL PROMPT_STR, R1	1300
									7E	61 3C 00023	MOVZWL (R1), -(SP)	1313
									04	A1 DD 00026	PUSHL 4(R1)	
									7E	04 A1 DD 00026	CLRL -(SP)	
									7E	7E 7C 00029	MOVZBL #132, -(SP)	
									7E	84 8F 9A 0002B	PUSHAB BUFFER	
									14	AE 9F 0002F	CLRL -(SP)	
									F8	7E 7C 00032	PUSHAB IOSB	
									F8	AD 9F 00034	PUSHL #55	
									37	DD 00037	MOVAB STA_TT_CHAN	
									66	DD 00039	CLRL -(SP)	
									7E	D4 0003B	CALLS #12, SYSSQIOW	
									20	UC FB 0003D	BLBC STATUS, 4\$	1314
									50	E9 00044	MOVZWL IOSB, STATUS	
									F8	AD 3C 00047	BLBC STATUS, 4\$	1315
									26	50 E9 00048		

STAIOSYS
V04-000

Standalone I/O system
LIB\$GET_COMMAND - get input from terminal

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[BACKUP.SRC]STAIOSYS.B32;1

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		03	6C	91	0004E	CMPB	(AP), #3		1320
		50	FA	AD	3C	00051	BLSSU	3\$	
		50	04	BC	B1	00053	MOVZWL	I0SB+2, R0	1322
					04	00057	CMPW	@GET_STR, R0	
		OC	50	04	BC	3C	BGEQU	2\$	
			BC	50	80	0005D	MOVZWL	@GET_STR, R0	
60	20		50	04	AC	D0	MOVW	R0, @OUT_LEN	1327
		0C	6E	FA	AD	2C	00061	MOVL	GET_STR, R0
				04	B0	00065	3\$:	MOVCS	I0SB+2, BUFFER, #32, (R0), @4(R0)
					01	00069	MOVL	#1, R0	
					04	0006F	RET		1329
						00071			
						00074			
						4\$:			

; Routine Size: 117 bytes, Routine Base: CODE + 0078

```
229 1330 1 %SBTTL 'LIB$PUT_OUTPUT - write to SYSSOUTPUT'
230 1331 1 GLOBAL ROUTINE [IB$PUT_OUTPUT(PUT_STR)=
231 1332 1 !++
232 1333 1 !+
233 1334 1 FUNCTIONAL DESCRIPTION:
234 1335 1 This routine is a replacement for LIB$PUT_OUTPUT in the
235 1336 1 stand-alone environment.
236 1337 1
237 1338 1 INPUT PARAMETERS:
238 1339 1 PUT_STR - Pointer to descriptor for string.
239 1340 1
240 1341 1 IMPLICIT INPUTS:
241 1342 1 NONE
242 1343 1
243 1344 1 OUTPUT PARAMETERS:
244 1345 1 NONE
245 1346 1
246 1347 1 IMPLICIT OUTPUTS:
247 1348 1 NONE
248 1349 1
249 1350 1 ROUTINE VALUE:
250 1351 1 Completion status.
251 1352 1
252 1353 1 SIDE EFFECTS:
253 1354 1 NONE
254 1355 1
255 1356 1
256 1357 1 !--
257 1358 1
258 1359 2 BEGIN
259 1360 2 MAP
260 1361 2 LOCAL PUT_STR: REF BBLOCK; ! Pointer to descriptor
261 1362 2 LOCAL STATUS;
262 1363 2 IOSB: VECTOR[4,WORD]; ! Status variable
263 1364 2
264 1365 2
265 1366 2
266 1367 2 ! Assign the channel if required.
267 1368 2
268 1369 2 IF .STA_TT_CHAN EQ 0
269 1370 2 THEN
270 1371 3 BEGIN
271 1372 3 STATUS = ASSIGN_CHANNEL($DESCRIPTOR('SYSSINPUT'), STA_TT_CHAN);
272 1373 3 IF NOT .STATUS THEN RETURN .STATUS;
273 1374 2 END;
274 1375 2
275 1376 2
276 1377 2 ! Execute the QIO.
277 1378 2
278 P 1379 2 STATUS = $QIOW(
279 P 1380 2 FUNC=IOS_WRITEBLK,
280 P 1381 2 CHAN=.STA_TT_CHAN,
281 P 1382 2 IOSB=IOSB,
282 P 1383 2 P1=.PUT_STR[DSC$A_POINTER],
283 P 1384 2 P2=.PUT_STR[DSC$W_LENGTH],
284 P 1385 2 P4=%C'').
285 P 1386 2 IF .STATUS THEN STATUS = .IOSB[0];
```

STAIOSYS
V04-000

Standalone I/O system
LIB\$PUT_OUTPUT - write to SYSS\$OUTPUT

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[BACKUP.SRC]STAIOSYS.B32;1

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: 286 1387 2 STATUS
: 287 1388 1 END;

54 55 50 4E 49 24 53 59 53 000ED P.AAD: .ASCII \SYSS\$INPUT\
000F6 .BLKB 2
00000009 000F8 P.AAC: .LONG 9
00000000' 000FC .ADDRESS P.AAD

					.ENTRY LIB\$PUT_OUTPUT, Save R2		1331
					MOVAB STA_TT_CHAN, R2		
					SUBL2 #8, SP		
					TSTL STA_TT_CHAN		1369
					BNEQ 1\$		
					PUSHL R2		1372
					PUSHAB P.AAC		
					CALLS #2, ASSIGN_CHANNEL		
					BLBC STATUS, 2\$		1373
					CLRQ -(SP)		1385
					PUSHL #32		
					CLRL -(SP)		
					MOVL PUT_STR, R1		
					MOVZWL (R1), -(SP)		
					PUSHL 4(R1)		
					CLRQ -(SP)		
					PUSHAB IOSB		
					PUSHL #32		
					PUSHL STA_TT_CHAN		
					CLRL -(SP)		
					CALLS #12, SYSS\$OIOW		1386
					BLBC STATUS, 2\$		
					MOVZWL IOSB, STATUS		
					RET		1388

; Routine Size: 70 bytes, Routine Base: CODE + 0100

```
289 1389 1 %SBTTL 'SYSSQIO - intercept QIO service call'  
290 1390 1 GLOBAL ROUTINE SYSSQIO(EFN,CHAN,FUNC,IOSB,ASTADR,ASTPRM,P1,P2,P3,P4,P5,P6)=  
291 1391 1 !++  
292 1392 1  
293 1393 1  
294 1394 1 FUNCTIONAL DESCRIPTION:  
295 1395 1 This routine is a replacement for the QIO service in the  
296 1396 1 stand-alone environment.  
297 1397 1  
298 1398 1 INPUT PARAMETERS:  
299 1399 1 As for SYSSQIO.  
300 1400 1  
301 1401 1 IMPLICIT INPUTS:  
302 1402 1 NONE  
303 1403 1  
304 1404 1 OUTPUT PARAMETERS:  
305 1405 1 NONE  
306 1406 1  
307 1407 1 IMPLICIT OUTPUTS:  
308 1408 1 NONE  
309 1409 1  
310 1410 1 ROUTINE VALUE:  
311 1411 1 Completion status.  
312 1412 1  
313 1413 1 SIDE EFFECTS:  
314 1414 1 NONE  
315 1415 1  
316 1416 1 --  
317 1417 1  
318 1418 2 BEGIN  
319 1419 2 MAP  
320 1420 2 FUNC: BBLOCK; ! I/O function code  
321 1421 2 BIND ROUTINE  
322 1422 2 QIO_VECTOR= %X'800001C8'; ! Vector location for SYSSQIO  
323 1423 2 BUILTIN  
324 1424 2 CALLG,  
325 1425 2 AP;  
326 1426 2  
327 1427 2  
328 1428 2 IF  
329 1429 2 .FUNC[IOSV_FCODE] LEQU IOS_LOGICAL OR  
330 1430 2 .FUNC[IOSV_FCODE] EQL IOS_READPROMPT  
331 1431 2 THEN  
332 1432 3 BEGIN  
333 1433 3  
334 1434 3 | Pass physical and logical I/O functions, and READPROMPT function,  
335 1435 3 | directly to the driver.  
336 1436 3  
337 1437 3 CALLG(.AP, QIO_VECTOR)  
338 1438 3 END  
339 1439 2 ELSE  
340 1440 3 BEGIN  
341 1441 3  
342 1442 3 | Read/write virtual and ACP I/O functions come here.  
343 1443 3  
344 1444 3 CALLG(.AP, STA_QIO)  
345 1445 3 END
```

STAIOSYS
V04-000

Standalone I/O system
SYSSQIO - intercept QIO service call

: 346

1446 1 END;

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QIO_VECTOR= -2147483192

2F	OC AC	06	0000 00000	.ENTRY	SYSSQIO, Save nothing	:	1390
			00 ED 00002	CMPZV	#0, #6, FUNC, #47	:	1429
37	OC AC	06	08 1B 00008	BLEQU	1\$:	
			00 ED 0000A	CMPZV	#0, #6, FUNC, #55	:	1430
		800001C8 9F	08 12 00010	BNEQ	2\$:	
			6C FA 00012 1\$:	CALLG	(AP), @#^X800001C8	:	1437
		00000000G 00	04 00019	RET		:	1432
			6C FA 0001A 2\$:	CALLG	(AP), STA_QIO	:	1444
			04 00021	RET		:	1446

: Routine Size: 34 bytes, Routine Base: CODE + 0146

```

348 1447 1 %SBTTL 'SYSSQIOW - intercept QIOW service call'
349 1448 1 GLOBAL ROUTINE SYSSQIOW(EFN,CHAN,FUNC,IOSB,ASTADR,ASTPRM,P1,P2,P3,P4,P5,P6)=
350 1449 1 !++
351 1450 1 !+
352 1451 1
353 1452 1 FUNCTIONAL DESCRIPTION:
354 1453 1 This routine is a replacement for the QIOW service in the
355 1454 1 stand-alone environment.
356 1455 1
357 1456 1 INPUT PARAMETERS:
358 1457 1 As for SYSSQIOW.
359 1458 1
360 1459 1 IMPLICIT INPUTS:
361 1460 1 NONE
362 1461 1
363 1462 1 OUTPUT PARAMETERS:
364 1463 1 NONE
365 1464 1
366 1465 1 IMPLICIT OUTPUTS:
367 1466 1 NONE
368 1467 1
369 1468 1 ROUTINE VALUE:
370 1469 1 Completion status.
371 1470 1
372 1471 1 SIDE EFFECTS:
373 1472 1 NONE
374 1473 1
375 1474 1 !--
376 1475 1
377 1476 2 BEGIN
378 1477 2 EXTERNAL ROUTINE
379 1478 2 SYSSWAITFR: ADDRESSING_MODE(GENERAL); ! Wait for event flag
380 1479 2 REGISTER
381 1480 2 R0=0;
382 1481 2 BUILTIN
383 1482 2 CALLG,
384 1483 2 AP;
385 1484 2
386 1485 2
387 1486 2 R0 = CALLG(.AP, SYSSQIO); ! Execute $QIO part
388 1487 2 IF NOT .R0 THEN RETURN .R0; ! If failed, return status
389 1488 2 CALLG(.AP, SYSSWAITFR) ! Execute SWAITFR part
390 1489 1 END;

```

.EXTRN SYSSWAITFR

<pre> D8 AF 00000000G 00 </pre>	<pre> 0000 00000 6C FA 00002 50 E9 00006 6C FA 00009 04 00010 1\$: </pre>	<pre> .ENTRY SYSSQIOW, Save nothing CALLG (AP), SYSSQIO BLBC R0, fs CALLG (AP), SYSSWAITFR RET </pre>	<pre> : 1448 : 1486 : 1487 : 1488 : 1489 </pre>
---------------------------------	---	---	---

: Routine Size: 17 bytes. Routine Base: CODE + 0168

```

392    1 %SBTTL 'SYSSCLOSE - RMS $CLOSE routine'
393    1 GLOBAL ROUTINE SYSSCLOSE(FAB)=
394    1
395    1 !++
396    1
397    1 FUNCTIONAL DESCRIPTION:
398    1 This routine is a replacement for the CLOSE service in the
399    1 stand-alone environment.
400    1
401    1 INPUT PARAMETERS:
402    1     FAB          - Pointer to the FAB.
403    1
404    1 IMPLICIT INPUTS:
405    1     NONE
406    1
407    1 OUTPUT PARAMETERS:
408    1     NONE
409    1
410    1 IMPLICIT OUTPUTS:
411    1     NONE
412    1
413    1 ROUTINE VALUE:
414    1     Completion status.
415    1
416    1 SIDE EFFECTS:
417    1     NONE
418    1
419    1 --
420    1
421    2 BEGIN
422    2 MAP
423    2     FAB:      REF BBLOCK;    ! Pointer to FAB
424    2
425    2
426    2 | This service deassigns the channel that was assigned by SCREATE or SOPEN.
427    2
428    2 SDASSGN(CHAN=.FAB[FAB$L_TX]);
429    2 FAB[FAB$W_IFI] = 0;
430    2 FAB[FAB$L_TX] = 0;
431    2 FAB[FAB$L_STS] = RMSS_NORMAL;
432    2 FAB[FAB$L_STV] = 0;
433    2 RMSS_NORMAL
434    1 END;

```

			.EXTRN SYSSDASSGN	
			.ENTRY SYSSCLOSE, Save R2	: 1491
		52 04 0004 00000	MOVL FAB, R2	: 1526
		18 A2 DD 00002	PUSHL 24(R2)	
	00000000G 00	01 FB 00009	CALLS #1, SYSSDASSGN	
		02 A2 B4 00010	CLRW 2(R2)	: 1527
		18 A2 D4 00013	CLRL 24(R2)	: 1528
	08 A2 00010001	8F D0 00016	MOVL #65537, 8(R2)	: 1529
		0C A2 D4 0001E	CLRL 12(R2)	: 1530
	50 00010001	8F D0 00021	MOVL #65537, R0	: 1532

STAIOSYS
V04-000

Standalone I/O system
SYSSCLOSE - RMS \$CLOSE routine

L 7
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[BACKUP.SRC]STAIOSYS.B32;1

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04 00028 RET

; Routine Size: 41 bytes, Routine Base: CODE + 0179

```
: 436      1533 1 %SBTTL 'SYSS$CREATE - RMS $CREATE routine'  
.: 437      1534 1 GLOBAL ROUTINE SYSS$CREATE(FAB)=  
.: 438      1535 1 !++  
.: 439      1536 1 !++  
.: 440      1537 1  
.: 441      1538 1 FUNCTIONAL DESCRIPTION:  
.: 442      1539 1 This routine is a replacement for the CREATE service in the  
.: 443      1540 1 stand-alone environment. It is limited to operation on terminals,  
.: 444      1541 1 line printers, and magnetic tape.  
.: 445      1542 1  
.: 446      1543 1 INPUT PARAMETERS:  
.: 447      1544 1 FAB           - Pointer to the FAB.  
.: 448      1545 1  
.: 449      1546 1 IMPLICIT INPUTS:  
.: 450      1547 1 NONE  
.: 451      1548 1  
.: 452      1549 1 OUTPUT PARAMETERS:  
.: 453      1550 1 NONE  
.: 454      1551 1  
.: 455      1552 1 IMPLICIT OUTPUTS:  
.: 456      1553 1 NONE  
.: 457      1554 1  
.: 458      1555 1 ROUTINE VALUE:  
.: 459      1556 1 Completion status.  
.: 460      1557 1  
.: 461      1558 1 SIDE EFFECTS:  
.: 462      1559 1 NONE  
.: 463      1560 1  
.: 464      1561 1 !--  
.: 465      1562 1  
.: 466      1563 2 BEGIN  
.: 467      1564 2 MAP  
.: 468      1565 2 LOCAL   FAB:          REF BBLOCK;    ! Pointer to FAB  
.: 469      1566 2             NAM:          REF BBLOCK,  
.: 470      1567 2             DESC:         VECTOR[2],    ! Pointer to NAM block  
.: 471      1568 2             STATUS:       ! Descriptor for expanded string  
.: 472      1569 2  
.: 473      1570 2  
.: 474      1571 2  
.: 475      1572 2 Parse the file specification if necessary.  
.: 476      1573 2  
.: 477      1574 2 IF NOT SPARSE(FAB=.FAB) THEN RETURN .FAB[FAB$L_STS];  
.: 478      1575 2  
.: 479      1576 2  
.: 480      1577 2 Check the device type.  
.: 481      1578 2  
.: 482      1579 2 IF  
.: 483      1580 2     NOT .BBLOCK[FAB[FAB$L_DEV], DEV$V_CCL] AND  
.: 484      1581 2     NOT .BBLOCK[FAB[FAB$L_DEV], DEV$V_SOD] AND  
.: 485      1582 2     .FAB[FAB$L_DEV] NEQ 0 ! Process-permanent file hack  
.: 486      1583 2 THEN  
.: 487      1584 3 BEGIN  
.: 488      1585 3     FAB[FAB$L_STS] = RMSS_DEV;  
.: 489      1586 3     FAB[FAB$L_STV] = 0;  
.: 490      1587 3     RETURN RMSS_DEV  
.: 491      1588 2 END;  
.: 492      1589 2
```

```

493    1590 2
494    1591 2 ! Create the resultant string.
495    1592 2
496    1593 2 NAM = .FAB[FAB$L_NAM];
497    1594 2 NAM[NAMSB_RSL] = .NAM[NAMSB_ESL];
498    1595 2 CH$MOVE(.NAM[NAMSB_ESL], .NAM[NAMSL_ESA], .NAM[NAMSL_RSA]);
499    1596 2
500    1597 2
501    1598 2 ! Assign the channel.
502    1599 2
503    1600 2 DESC[0] = .NAM[NAMSB_ESL];
504    1601 2 DESC[1] = .NAM[NAMSL_ESA];
505    1602 2 STATUS = ASSIGN_CHANNEL(DESC, FAB[FAB$L_CTX]);
506    1603 2 IF NOT .STATUS
507    1604 2 THEN
508    1605 3 BEGIN
509    1606 3 FAB[FAB$L_STS] = .STATUS;
510    1607 3 FAB[FAB$L_STV] = 0;
511    1608 3 RETURN .STATUS;
512    1609 2 END;
513    1610 2
514    1611 2
515    1612 2 ! Indicate success.
516    1613 2
517    1614 2 FAB[FAB$L_STS] = RMSS_NORMAL;
518    1615 2 FAB[FAB$L_STV] = .FAB[FAB$L_CTX];
519    1616 2 RMSS_NORMAL
520    1617 1 END;

```

					.EXTRN SYSSPARSE	
			SE	00FC 00000	.ENTRY SYSSCREATE, Save R2,R3,R4,R5,R6,R7	: 1534
			57	08 C2 00002	SUBL2 #8, SP	: 1574
			57	AC DD 00005	MOVL FAB, R7	
			00	57 DD 00009	PUSHL R7	
			05	01 FB 00008	CALLS #1, SYSSPARSE	
			50	50 E8 00012	BLBS R0, 1\$	
			08	A7 DD 00015	MOVL 8(R7), R0	
				04 00019	RET	
			1D	01 E0 0001A	1\$: BBS #1, 64(R7), 2\$: 1580
			18	05 E0 0001F	BBS #5, 64(R7), 2\$: 1581
				40 A7 D5 00024	TSTL 64(R7)	: 1582
				13 13 00027	BEQL 2\$	
			08	8F D0 00029	MOVL #99524, 8(R7)	: 1585
				0C A7 D4 00031	CLRL 12(R7)	: 1586
				50 000184C4 8F D0 00034	MOVL #99524, R0	: 1587
				04 0003B	RET	
			03	56 28 A7 D0 0003C	2\$: MOVL 40(R7), NAM	: 1593
			A6	08 A6 90 00040	MOVB 11(NAM), 3(NAM)	: 1594
			50	08 A6 9A 00045	MOVZBL 11(NAM), R0	: 1595
			0C B6 50 28 00049	MOVC3 R0, @12(NAM), @4(NAM)		
			6E 0B A6 9A 0004F	MOVZBL 11(NAM), DESC		
			04 AE 0C A6 D0 00053	MOVL 12(NAM), DESC+4		
			18 A7 9F 00058	PUSHAB 24(R7)		
			04 AE 9F 0005B	PUSHAB DESC		

STAIOSYS
V04-000

Standalone I/O system
SYSS\$CREATE - RMS \$CREATE routine

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S
V

FDFB	CF	02	FB	0005E	CALLS	#2, ASSIGN_CHANNEL	:	1603
08	08	50	E8	00063	BLBS	STATUS, 3\$:	1606
08	A7	50	D0	00066	MOVL	STATUS, 8(R7)	:	1607
		OC	A7	D4 0006A	CLRL	12(R7)	:	1608
				04 0006D	RET		:	1614
08	A7 00010001	8F	D0	0006E	3\$: MOVL	#65537, 8(R7)	:	1615
0C	A7 18	A7	D0	00076	MOVL	24(R7), 12(R7)	:	1617
	50 00C10001	8F	D0	0007B	MOVL	#65537, R0		
				04 00082	RET			

: Routine Size: 131 bytes, Routine Base: CODE + 01A2

```
; 522 1618 1 %SBTTL 'SYSSOPEN - RMS $OPEN routine'
; 523 1619 1 GLOBAL ROUTINE SYSSOPEN(FAB)=
; 524 1620 1
; 525 1621 1 ++
; 526 1622 1
; 527 1623 1 FUNCTIONAL DESCRIPTION:
; 528 1624 1 This routine is a replacement for the OPEN service in the
; 529 1625 1 stand-alone environment. It is limited to operation on terminals,
; 530 1626 1 line printers, and magnetic tape.
; 531 1627 1
; 532 1628 1 INPUT PARAMETERS:
; 533 1629 1 FAB - Pointer to the FAB.
; 534 1630 1
; 535 1631 1 IMPLICIT INPUTS:
; 536 1632 1 NONE
; 537 1633 1
; 538 1634 1 OUTPUT PARAMETERS:
; 539 1635 1 NONE
; 540 1636 1
; 541 1637 1 IMPLICIT OUTPUTS:
; 542 1638 1 NONE
; 543 1639 1
; 544 1640 1 ROUTINE VALUE:
; 545 1641 1 Completion status.
; 546 1642 1
; 547 1643 1 SIDE EFFECTS:
; 548 1644 1 NONE
; 549 1645 1
; 550 1646 1 --
; 551 1647 1
; 552 1648 2 BEGIN
; 553 1649 2 MAP
; 554 1650 2 LOCAL FAB: REF BBLOCK; ! Pointer to FAB
; 555 1651 2 NAM: REF BBLOCK, ! Pointer to NAM block
; 556 1652 2 DESC: VECTOR[2], Descriptor for expanded string
; 557 1653 2 STATUS: ! Status variable
; 558 1654 2
; 559 1655 2
; 560 1656 2
; 561 1657 2 ! Parse the file specification if necessary.
; 562 1658 2
; 563 1659 2 IF NOT SPARSE(FAB=.FAB) THEN RETURN .FAB[FAB$L_STS];
; 564 1660 2
; 565 1661 2
; 566 1662 2 ! Check the device type.
; 567 1663 2
; 568 1664 2 IF
; 569 1665 2 NOT .BBLOCK[FAB[FAB$L_DEV], DEV$V_CCL] AND
; 570 1666 2 NOT .BBLOCK[FAB[FAB$L_DEV], DEV$V_SQD] AND
; 571 1667 2 .FAB[FAB$L_DEV] NEQ 0 ! Process-permanent file hack
; 572 1668 2 THEN
; 573 1669 3 BEGIN
; 574 1670 3 FAB[FAB$L_STS] = RMSS_DEV;
; 575 1671 3 FAB[FAB$L_STV] = 0;
; 576 1672 3 RETURN RMSS_DEV
; 577 1673 2
; 578 1674 2 END;
```

```

579    1675 2
580    1676 2 ! Create the resultant string.
581    1677 2
582    1678 2 NAM = .FAB[FAB$L_NAM];
583    1679 2 NAM[NAM$B_RSL] = .NAM[NAM$B_ESL];
584    1680 2 CH$MOVE(.NAM[NAM$B_ESL], .NAM[NAM$L_ESA], .NAM[NAM$L_RSA]);
585    1681 2
586    1682 2
587    1683 2 ! Assign the channel.
588    1684 2
589    1685 2 DESC[0] = .NAM[NAM$B_ESL];
590    1686 2 DESC[1] = .NAM[NAM$L_ESA];
591    1687 2 STATUS = ASSIGN_CHANNEL(DESC, FAB[FAB$L_TX]);
592    1688 2 IF NOT .STATUS
593    1689 2 THEN
594    1690 3 BEGIN
595    1691 3 FAB[FAB$L_STS] = .STATUS;
596    1692 3 FAB[FAB$L_STV] = 0;
597    1693 3 RETURN .STATUS;
598    1694 2 END;
599    1695 2
600    1696 2
601    1697 2 ! Indicate success.
602    1698 2
603    1699 2 FAB[FAB$L_STS] = RM$ NORMAL;
604    1700 2 FAB[FAB$L_STV] = .FAB[FAB$L_TX];
605    1701 2 RM$ NORMAL
606    1702 1 END;

```

				00FC 00000	.ENTRY	SYSSOPEN. Save R2,R3,R4,R5,R6,R7	1619
		5E	04	08 C2 00002	SUBL2	#8, SP	1659
		57		AC DD 00005	MOVL	FAB, R7	
				57 DD 00009	PUSHL	R7	
		00000000G	00	01 FB 0000B	CALLS	#1, SYSPARSE	
		05		50 E8 00012	BLBS	R0, 1\$	
		50	08	A7 DD 00015	MOVL	8(R7), R0	
				04 00019	RET		
		1D	40	A7 0001A 1\$:	BBS	#1, 64(R7), 2\$	1665
		18	40	A7 0001F	BBS	#5, 64(R7), 2\$	1666
				40 A7 D5 00024	TSTL	64(R7)	1667
				13 13 00027	BEQL	2\$	
			08	A7 000184C4	MOVL	#99524, 8(R7)	1670
				0C A7 D4 00031	CLRL	12(R7)	1671
				50 000184C4	MOVL	#99524, R0	1672
				8F DD 00034	RET		
				04 0003B	MOVL	40(R7), NAM	1678
			03	56 28 A7 DD 0003C 2\$:	MOVB	11(NAM), 3(NAM)	1679
			A6	08 A6 90 00040	MOVZBL	11(NAM), R0	1680
			50	08 A6 9A 00045	MOVC3	R0, 212(NAM), 24(NAM)	
			B6	50 28 00049	MOVZBL	11(NAM), DESC	1685
		04	6E	08 A6 9A 0004F	MOVL	12(NAM), DESC+4	1686
			AE	0C A6 DD 00053	PUSHAB	24(R7)	1687
				18 A7 9F 00058	PUSHAB	DESC	
				04 AE 9F 0005B			

STAIOSYS
V04-000

Standalone I/O system
SYS\$OPEN - RMS \$OPEN routine

E 8
16-Sep-1984 01:05:14 VAX-11 Bliss-32 v4.0-742
14-Sep-1984 11:54:05 [B~~A~~KUP.SR/]STAIOSYS.B32;1

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FD78	CF	02	FB	0005E	CALLS	#2, ASSIGN_CHANNEL	:
	08	50	E8	00063	BLBS	STATUS, 3\$	1688
08	A7	50	D0	00066	MOVL	STATUS, 8(R7)	1691
		OC	A7	D4 0006A	CLRL	12(R7)	1692
				04 0006D	RET		1693
08	A7 00010001	8F	D0	0006E	3\$: MOVL	#65537, 8(R7)	1699
OC	A7 18	A7	D0	00076	MOVL	24(R7), 12(R7)	1700
	50 00010001	8F	D0	0007B	MOVL	#65537, R0	1702
				04 00082	RET		

; Routine Size: 131 bytes, Routine Base: CODE + 0225

```

608 1703 1 %SBTTL 'SYSSCONNECT - RMS SCONNECT routine'
609 1704 1 GLOBAL ROUTINE SYSSCONNECT(RAB)=
610 1705 1 !++
611 1706 1 !++
612 1707 1 !!
613 1708 1 FUNCTIONAL DESCRIPTION:
614 1709 1 This routine is a replacement for the CONNECT service in the
615 1710 1 stand-alone environment.
616 1711 1
617 1712 1 INPUT PARAMETERS:
618 1713 1 RAB - Pointer to the RAB.
619 1714 1
620 1715 1 IMPLICIT INPUTS:
621 1716 1 NONE
622 1717 1
623 1718 1 OUTPUT PARAMETERS:
624 1719 1 NONE
625 1720 1
626 1721 1 IMPLICIT OUTPUTS:
627 1722 1 NONE
628 1723 1
629 1724 1 ROUTINE VALUE:
630 1725 1 Completion status.
631 1726 1
632 1727 1 SIDE EFFECTS:
633 1728 1 NONE
634 1729 1
635 1730 1 !--
636 1731 1
637 1732 2 BEGIN
638 1733 2 MAP
639 1734 2 RAB: REF BBLOCK; ! Pointer to RAB
640 1735 2
641 1736 2
642 1737 2 ! This service is a no-operation.
643 1738 2
644 1739 2 RAB[RABSL_STS] = RMSS_NORMAL;
645 1740 2 RAB[RABSL_STV] = 0;
646 1741 2 RMSS_NORMAL
647 1742 1 END;

```

				.ENTRY	SYSSCONNECT. Save nothing	
08	50	04	0000 00000	MOVL	RAB, R0	1704
	A0	00010001	AC D0 00002	MOVL	#65537, 8(R0)	1739
			8F D0 00006	CLRL	12(R0)	
		OC	A0 D4 0000E	MOVL	#65537, R0	1740
		50	00010001	8F D0 00011		1742
				04 00018	RET	

; Routine Size: 25 bytes, Routine Base: CODE + 02A8

```
649 1743 1 %SBTTL 'SYSSPUT - RMS $PUT routine'  
650 1744 1 GLOBAL ROUTINE SYSSPUT(RAB)=  
651 1745 1  
652 1746 1 !++  
653 1747 1  
654 1748 1 FUNCTIONAL DESCRIPTION:  
655 1749 1 This routine is a replacement for the PUT service in the  
656 1750 1 stand-alone environment. This service is provided to allow  
657 1751 1 /LIST to operate. It is restricted to terminals and line printers.  
658 1752 1  
659 1753 1 INPUT PARAMETERS:  
660 1754 1 RAB - Pointer to the RAB.  
661 1755 1  
662 1756 1 IMPLICIT INPUTS:  
663 1757 1 NONE  
664 1758 1  
665 1759 1 OUTPUT PARAMETERS:  
666 1760 1 NONE  
667 1761 1  
668 1762 1 IMPLICIT OUTPUTS:  
669 1763 1 NONE  
670 1764 1  
671 1765 1 ROUTINE VALUE:  
672 1766 1 Completion status.  
673 1767 1  
674 1768 1 SIDE EFFECTS:  
675 1769 1 NONE  
676 1770 1  
677 1771 1 --  
678 1772 1  
679 1773 2 BEGIN  
680 1774 2 MAP  
681 1775 2 RAB: REF BBLOCK; ! Pointer to RAB  
682 1776 2 LOCAL  
683 1777 2 FAB: REF BBLOCK; ! Pointer to FAB  
684 1778 2 STATUS,  
685 1779 2 IOSB: VECTOR[4,WORD]; Status variable  
686 1780 2 I/O status block  
687 1781 2  
688 1782 2 ! Point to FAB.  
689 1783 2  
690 1784 2 FAB = .RAB[RAB$L_FAB];  
691 1785 2  
692 1786 2  
693 1787 2 ! Make sure a channel has been assigned.  
694 1788 2  
695 1789 2 IF .FAB[FABL_CTX] EQL 0  
696 1790 2 THEN  
697 1791 3 BEGIN  
698 1792 3 RAB[RAB$L_STS] = RMSS_DEV;  
699 1793 3 RAB[RAB$L_STV] = 0;  
700 1794 3 RETURN RMSS_DEV  
701 1795 2 END;  
702 1796 2  
703 1797 2  
704 1798 2 ! Execute the I/O.  
705 1799 2
```

```

706 P 1800 2 STATUS = $QIOW(
707 P 1801 3 FUNC=IOS WRITEBLK,
708 P 1802 3 CHAN=FAB[FABSL_CTX],
709 P 1803 3 IOSB=IOSB,
710 P 1804 3 P1=RAB[RABSL_RBF],
711 P 1805 3 P2=RAB[RABSW_RSZ];
712 P 1806 3 P4=%[''];
713 P 1807 3 IF STATUS THEN STATUS = .IOSB[0];
714 P 1808 3 RAB[RABSL_STS] = STATUS;
715 P 1809 3 RAB[RABSL_STV] = 0;
716 P 1810 3 STATUS
717 P 1811 1 END;

```

			0004 00000	.ENTRY SYSSPUT, Save R2	: 1744
	5E	04	08 C2 00002	SUBL2 #8, SP	: 1784
	52	3C	A2 D0 00005	MOVL RAB, R2	: 1789
	50	18	A0 D5 00009	MOVL 60(R2), FAB	: 1792
			13 12 00010	TSTL 24(FAB)	: 1793
08	A2 000184C4		8F D0 00012	BNEQ 1\$: 1794
	OC		A2 D4 0001A	MOVL #99524, 8(R2)	: 1806
	50 000184C4		8F D0 0001D	CLRL 12(R2)	: 1807
			04 00024	MOVL #99524, R0	: 1808
			7E 7C 00025	RET	: 1809
			20 DD 00027	1\$: CLRQ -(SP)	: 1810
	7E	22	7E D4 00029	PUSHL #32	: 1811
		28	A2 3C 0002B	CLRL -(SP)	
			A2 DD 0002F	MOVZWL 34(R2), -(SP)	
		20	7E 7C 00032	PUSHL 40(R2)	
			AE 9F 00034	CLRQ -(SP)	
			20 DD 00037	PUSHAB IOSB	
		18	A0 DD 00039	PUSHL #32	
	00000000G	00	7E D4 0003C	PUSHL 24(FAB)	
	03		OC FB 0003E	CLRL -(SP)	
	50		50 E9 00045	CALLS #12, SYSSQIOW	
	08 A2		6E 3C 00048	BLBC STATUS, 2\$	
	OC		50 D0 0004B	MOVZWL IOSB, STATUS	
			A2 D4 0004F	MOVL STATUS, 8(R2)	
			04 00052	CLRL 12(R2)	
				RET	

: Routine Size: 83 bytes, Routine Base: CODE + 02C1

```

719   1812 1 %SBTTL 'DUMMY - various dummy RMS routines'
720   1813 1 ROUTINE DUMMY(RAB)=
721   1814 1 !++
722   1815 1 !++
723   1816 1
724   1817 1 FUNCTIONAL DESCRIPTION:
725   1818 1 This routine serves as a stub for services that are referenced but are
726   1819 1 never called in the stand-alone environment, namely SYSSFIND, SYSSGET,
727   1820 1 and SYSSREWIND. These services are used to handle save set files in
728   1821 1 the on-line version.
729   1822 1
730   1823 1 INPUT PARAMETERS:
731   1824 1 RAB           - Pointer to the RAB.
732   1825 1
733   1826 1 IMPLICIT INPUTS:
734   1827 1     NONE
735   1828 1
736   1829 1 OUTPUT PARAMETERS:
737   1830 1     NONE
738   1831 1
739   1832 1 IMPLICIT OUTPUTS:
740   1833 1     NONE
741   1834 1
742   1835 1 ROUTINE VALUE:
743   1836 1     Completion status (RMSS_IOP, invalid operation).
744   1837 1
745   1838 1 SIDE EFFECTS:
746   1839 1     NONE
747   1840 1
748   1841 1 --+
749   1842 1
750   1843 2 BEGIN
751   1844 2 MAP
752   1845 2     RAB:      REF BBLOCK:    ! Pointer to RAB
753   1846 2
754   1847 2
755   1848 2     RAB[RAB$L_STS] = RMSS_IOP;
756   1849 2     RAB[RAB$L_STV] = 0;
757   1850 2     RMSS_IOP
758   1851 1 END;

```

			0000 00000	DUMMY:	.WORD	Save nothing	: 1813
08	50	04	AC D0 00002		MOVL	RAB, R0	: 1848
	A0	00018574	8F D0 00006		MOVL	#99700, 8(R0)	
		0C	A0 D4 0000E		CLRL	12(R0)	: 1849
		50	00018574	8F D0 00011	MOVL	#99700, R0	: 1851
				04 00018	RET		

: Routine Size: 25 bytes. Routine Base: CODE + 0314

STAIOSYS
V04-000

Standalone I/O system
DUMMY - various dummy RMS routines

J 8
16-Sep-1984 01:05:14
14-Sep-1984 11:54:05
VAX-11 Bliss-32 v4.0-742
[BACKUP.SRC]STAIOSYS.B32;1

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(14)

```
760 1852 1 GLOBAL BIND ROUTINE
761 1853 1 SYSS$IND      = DUMMY,
762 1854 1 SYSS$GET      = DUMMY,
763 1855 1 SYSS$REWIND   = DUMMY;
764 1856 1
765 1857 1
766 1858 1 END
767 1859 0 ELUDOM
```

SYSS\$IND== DUMMY
SYSS\$GET== DUMMY
SYSS\$REWIND== DUMMY

PSECT SUMMARY

Name	Bytes	Attributes
DATA	4 NOVEC. WRT. RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)	
CODE	813 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)	

Library Statistics

File	----- Symbols -----	Pages	Processing
	Total Loaded Percent	Mapped	Time
_S255\$DUA28:[SYSLIB]LIB.L32;1	18619 36 0	1000	00:02.2

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:STAIOSYS/OBJ=OBJ\$:STAIOSYS MSRC\$:STAIOSYS/UPDATE=(ENH\$:STAIOSYS)

: Size: 776 code + 41 data bytes
: Run Time: 00:23.3
: Elapsed Time: 01:11.8
: Lines/CPU Min: 4789
: Lexemes/CPU-Min: 33866
: Memory Used: 185 pages
: Compilation Complete

0016 AH-BT13A-SE
VAX/VMS V4.0

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